

# 103701-ELE-12ST-E-2013

## Testing & Commissioning Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 3 years hands-on experience working in testing and commissioning.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 07/07/1991  
Gender : Male  
Residence : Currently KSA

### EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2013

### LANGUAGES

Arabic : Native Language  
English : Very Good

### COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: Lighting design and simulation with the international simulation program DIALUX  
: AutoCAD Electrical Design  
: MATLAB toolboxes  
: PIC and AVR microcontroller C programming language  
: Movie Design software (Movie Maker)

### TRAINING COURSES AND CERTIFICATIONS

: Main relay testing using Freja500 at Megger.  
: Electrical Maintenance training for SGT5-2000E GT package at Attaqa site Egypt (Certified from Siemens Germany).  
: Basic operation training (BOT) for SGT5-2000E GT package at Attaqa site Egypt (Certified from Siemens Germany).  
: Siemens electrical & mechanical training at ELSEWDY Company: this training includes the methods of operating and maintenance of gas turbines Siemens (Sgt5-2000e).  
: Microcontrollers applications (PIC) JELECOM Egypt Training Company in association with the ITIDA.  
: Microcontrollers (AVR) from July ALPHATECK Egypt Training Company.

- : S77-300/400 PLC, Faculty of Engineering, Alexandria University: Ability to programming, troubleshoot and repair of any faults.
- : ICDL
- : Trainings at:
  - El-Behira Company for Electricity Distribution training (Jul./Aug. 2011).
  - The International Company for Agro Industrial Projects (BEYTI) (Aug. 2011).
- : Problem Solving and Decisions Making.
- : Teams and Work Grouping.
- : Negotiation Skills.
- : Economic Feasibility Study.
- : Basic of Managerial Economics.
- : Planning and Controlling.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2016 till now
- Employer** : Jal International Ltd
- Job title** : Testing & Commissioning Engineer
- Job Description** :
  - 115/13.8KV Qatar Road Substation:
    - Testing for all 115KV ABB GIS equipment as follow (circuit breaker, disconnecting switch, earth switch).
    - Simple relay testing:
      - Under voltage protection (ALSTOM P142).
      - 13.8KV switchgear feeder protection relay (REF 615).
      - High impedance bus bar protection relay (SIEMENS 7SJ641).
    - Advanced relay testing:
      - Transformer differential relay (ZIV, SEL487V).
      - Line distance and differential protection (SIEMENS 7SJ522, ALSTOM P546).
    - Scheme and functional check for control room panels as follow:
      - OHL protection panel.
      - Transformer protection panels.
      - Capacitor bank protection panel.
      - 115KV ABB GIS LCC panels.
      - 13.8KV switchgear panels.
      - Automatic voltage regulator panels for three transformers.
    - Stability and Primary injection test for 13.8KV & 115KV.
  - 380/115/13.8KV AL-OMRAN Substation:
    - Testing for all 115KV HYUNDAI GIS equipment as follow (circuit breaker, disconnecting switch, earth switch).
    - Advanced relay testing and final setting for: Line distance and differential protection (SIEMENS 7SJ522, ALSTOM P546).
    - Scheme and functional check for control room panels as follow:
      - OHL protection panel.
      - 115KV HYUNDAI GIS LCC panels.
    - Fault recorder and SAS all faulty signals checking.

**Dates** : From Aug. 2015 till Aug. 2016  
**Employer** : EI-Sewedy for Power System Projects  
**Project** : Mahmoudia Simple Cycle Power Plant (165MW x 2 units) (Ansaldo Energia (V94.2))  
**Job title** : I&C Commissioning & Testing Engineer  
**Job Description** :
 

- 220KV GIS complete scheme checking and function check with protection panels.
- Stability and Primary injection test for 220KV.
- All Breakers testing for 220KV GIS.
- 220KV CT Testing using CT Analyzer.
- Scheme and function check for two overhead line protection panels.
- Line distance and differential protection main relay testing type (7SJ522).
- Complete scheme checking for 6.6KV switchgear and function check with TCS for all interlocks.

**Dates** : From Mar. 2014 till Aug. 2015  
**Employer** : EI-Sewedy for Power System Projects  
**Project** : Attaqa Simple Cycle Power Plant (165MW x 4 units) (Siemens (SGT5-2000E))  
**Job title** : I&C Commissioning & Testing Engineer  
**Job Description** :
 

- Cooled loop check for Siemens S3000 control signals.
- Using all kind of loop simulators to check process signals.
- Combustion chamber / Flame signals cable termination and hoot loop checked.
- BOP instrument calibration and preparing the required hook-up.
- Installing and commissioning of all SGT5-2000E I&C related equipment's.
- Fuel oil / Fuel Gas skids hot commissioning and signals loop check with TCS.
- Testing and function check for all fail safe and GT hardware trip signals.
- Signal testing and hot commissioning for all gas turbines GIS signals and back energize testing.
- Doing all testing and configuration for BOP firefighting system (Lite-Fire Honeywell System).
- Function check and process testing for Gas turbines Fin-Fan cooler system and connecting all signals interfaces to TCS.
- Ensure equipment erection & commissioning for safety critical items meets acceptable standards.
- Siemens GT instrument installation as per approved hook up.
- Doing the required calibration for all Base module and blow-off instruments.
- Siemens TCS signal hot loop check and testing for all interconnection cables.
- Doing field and PCC Vibrometer system testing and fixing all GT/Generator vibration sensors (Absolute or Relative).
- Update of P&ID's with as builds and submission to engineering department.

**TEST EQUIPMENT USED:**

- Freja 500.

- Freja 300.
- Sverker 760/780.
- CPC 100 (Omicron).
- CT Analyzer.
- Micro-ohmmeter.
- Insulation Resistance Tester.
- CB Analyser.